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**Rigoberto Florez\*** (florezr@uscsumter.edu), USC Sumter, Sumter, SC 29150, and **David Forge**, Paris. *A Family of Non-orientable matroids of rank three in a projective plane.*

We construct a family of minimal non-orientable matroid of rank three. Some of these matroids are embeded in Desarguesian projective planes. This answer a question of Ziegler: For every prime power of  $q$ , find a minimal non-orientable submatroid of the projective plane over the  $q$ -elements field. (Received September 20, 2007)